



# SEQUENCE LISTING

Collison, Tracy A.  
Simpson, Richard J.  
Farley, Alison M.  
Nicholson, Sandra E.  
Zhang, Jian-Guo  
Baca, Manuel  
Nicola, Nicas A.  
Hilton, Douglas J.  
Alexander, Warren S.  
Metcalf, Donald

<120> SOCS-BOX CONTAINING PEPTIDES

<130> Davies Collison Cave

<140> 09/868,813

<141> 2002-02-26

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: FLAG epitope tag

<400> 1

Asp Tyr Lys Asp Asp Asp Asp Lys  
1 5

<210> 2

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: myc epitope tag

<400> 2

Asp Gln Lys Leu Ile Ser Glu Glu Asp Leu  
1 5 10

<210> 3

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: linker sequence

<400> 3

Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp  
 1 5 10

<210> 4  
 <211> 10  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: consensus sequence in the  
 N-terminus of SOCS boxes

<220>  
 <221> misc\_feature  
 <222> (1)  
 <223> Xaa is Thr, Ser or Pro

<220>  
 <221> misc\_feature  
 <222> (3)..(5)  
 <223> Xaa is any amino acid

<220>  
 <221> misc\_feature  
 <222> (6)  
 <223> Xaa is Cys or Ser

<220>  
 <221> misc\_feature  
 <222> (7)..(9)  
 <223> Xaa is any amino acid

<220>  
 <221> misc\_feature  
 <222> (10)  
 <223> Xaa is Leu, Ile or Val

<400> 4  
 Xaa Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 5 10

<210> 5  
 <211> 128  
 <212> PRT  
 <213> Mus musculus

<220>  
 <221> UNSURE  
 <222> (1)  
 <223> Xaa is Leu, Ile, Val, Met, Ala or Pro

<220>  
 <221> UNSURE  
 <222> (2)  
 <223> Xaa is any amino acid residue

<220>  
 <221> UNSURE

<222> (3)  
 <223> Xaa is Pro, Thr or Ser  
  
 <220>  
 <221> UNSURE  
 <222> (4)  
 <223> Xaa is Leu, Ile, Val, Met, Ala or Pro  
  
 <220>  
 <221> UNSURE  
 <222> (5)  
 <223> Xaa is any amino acid  
  
 <220>  
 <221> UNSURE  
 <222> (6)  
 <223> Xaa is any amino acid  
  
 <220>  
 <221> UNSURE  
 <222> (7)  
 <223> Xaa is Leu, Ile, Val, Met, Ala, Phe, Tyr or Trp  
  
 <220>  
 <221> UNSURE  
 <222> (8)  
 <223> Xaa is Cys, Thr or Ser  
  
 <220>  
 <221> UNSURE  
 <222> (9)  
 <223> Xaa is Arg, Lys or His  
  
 <220>  
 <221> UNSURE  
 <222> (10)  
 <223> Xaa is any amino acid  
  
 <220>  
 <221> UNSURE  
 <222> (11)  
 <223> Xaa is any amino acid  
  
 <220>  
 <221> UNSURE  
 <222> (12)  
 <223> Xaa is Leu, Ile, Val, Met, Ala or Pro  
  
 <220>  
 <221> UNSURE  
 <222> (13)  
 <223> Xaa is any amino acid  
  
 <220>  
 <221> UNSURE  
 <222> (14)  
 <223> Xaa is any amino acid  
  
 <220>

<221> UNSURE  
 <222> (15)  
 <223> Xaa is any amino acid

<220>  
 <221> UNSURE  
 <222> (16)  
 <223> Xaa is Leu, Ile, Val, Met, Ala, Pro, Gly, Cys, Thr  
 or Ser

<220>  
 <221> UNSURE  
 <222> (17)..(66)  
 <223> Xaa can be any amino acid. Position 17-66  
 can be 1-50 amino acids.

<220>  
 <221> UNSURE  
 <222> (67)  
 <223> Xaa is Leu, Ile, Val, Met, Ala or Pro

<220>  
 <221> UNSURE  
 <222> (68)  
 <223> Xaa is any amino acid

<220>  
 <221> UNSURE  
 <222> (69)  
 <223> Xaa is any amino acid

<220>  
 <221> UNSURE  
 <222> (70)  
 <223> Xaa is Leu, Ile, Val, Met, Ala or Pro

<220>  
 <221> UNSURE  
 <222> (72)  
 <223> Xaa is Leu, Ile, Val, Met, Ala, Pro or Gly

<220>  
 <221> UNSURE  
 <222> (73)  
 <223> Xaa is Pro or Asn

<220>  
 <221> UNSURE  
 <222> (74)..(123)  
 <223> Xaa can be any amino acid. Position 74-123  
 can be 1-50 amino acids.

<220>  
 <221> UNSURE  
 <222> (124)  
 <223> Xaa is Leu, Ile, Val, Met, Ala or Pro

<220>  
 <221> UNSURE

<222> (125)..(126)  
<223> Xaa is any amino acid

<220>  
<221> UNSURE  
<222> (127)  
<223> Xaa is Tyr or Phe

<220>  
<221> UNSURE  
<222> (128)  
<223> Xaa is Leu, Ile, Val, Met, Ala or Pro

<400> 5

Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
1				5					10					15	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			20					25					30		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			35					40					45		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			50					55					60		
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65						70				75					80
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				85					90					95	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
				100					105					110	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			115						120					125	

<210> 6  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: a protein-protein  
interaction domain in SOCS proteins

<400> 6  
Ser Pro Arg Tyr